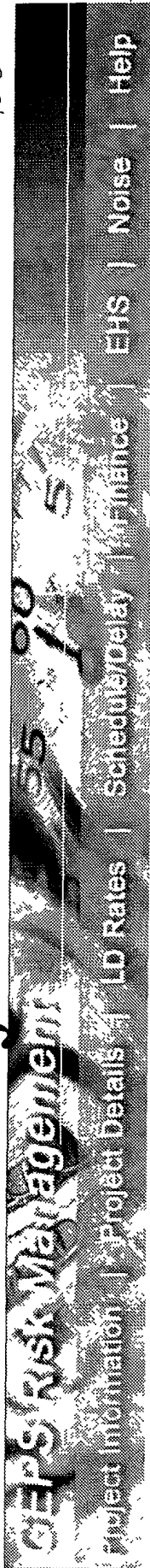


Project Information

100



Project Name: Insert Data Here

ID#: Insert Data Here

Buyer: Insert Data Here

Intended Cycle: Insert Data Here

LD Type: Insert Data Here

Bid Price of GE's Scope (000's): Insert Data Here

Estimated EPC Price (000's): Insert Data Here

Contribution Margin for GE's Scope (%): Insert Data Here

Power Plant Technology: Insert Data Here

Project Technology Configuration: Insert Data Here

Number of Units per Block: Insert Data Here

Number of Project Blocks: Insert Data Here

Country: Insert Data Here

State/Province: Insert Data Here

Country HZ: Insert Data Here

GE Site Scope: Insert Data Here

GE Equipment Scope: Insert Data Here

Project Viability: Insert Data Here

GE Competitive Rating: Insert Data Here

Finance Structure: Insert Data Here

Fuel Structure: Insert Data Here

Primary Fuel: Insert Data Here

Secondary Fuel: Insert Data Here

Fig 1

Project Details

200

GEPS Risk Management | Project Details | LD Rates | Schedule Delay | Finance | EHS | Noise | Help

Select the type of "R" review *(check all that apply)*

☐ R-2 To Bid This Project ☐ Interim R-3 To Receive Funds

☐ Interim R-3 To Sign An MOU/LOI/TPA ☐ Final R-3 Based On Fully Negotiated Contract

☐ Interim R-3 For Engineering Release ☐ Interim R-3 For

☐ Interim R-3 For Manufacturing Release

Gas Turbine

Combined Cycle Configuration ☐

Cogeneration Configuration ☐

Number Of Project Blocks ☐

Gas Turbine Model ☐

GT Generator Model ☐

GT Generator Quantity ☐

Number of GT Units

Block 1 ☐

Block 2 ☐

Block 3 ☐

Block 4 ☐

Block 5 ☐

Block 6 ☐

Steam Turbine / Boiler

Steam Turbine Model ☐

Steam Turbine Quantity ☐

ST LSB ☐

ST Megawatt ☐ (MW)

ST Generator Model ☐

Boiler/HRSG Type ☐

Boiler/HRSG Quantity ☐

BFPT Quantity (if any) ☐

BFPT Capacity (if known) ☐

Other Equipment / Services That GE Will Supply In This Contract *(check all that apply)*

☐ Interconnection Yard ☐ Power Island BOP Only ☐ Pipeline ☐ CSA

☐ IGCC Gasifier ☐ Partial Plant BOP ☐ Glegg Scope ☐ NUS

☐ Transformers ☐ Entire Plant BOP ☐ CMU ☐ Other

Is There A CC STG Capture Strategy? ☐ Yes ☐ No *Describe Strategy Below*

Is There A CC Performance Wrap? ☐ Yes ☐ No *(CC Capture & Package Excs Only)*

Will GE Provide An Installation, Centerline Erection Or Turnkey Proposal Later? ☐ Yes ☐ No *Describe Strategy Below*

201

202

203

Fig 2

Noise 1

302

GEEPs Risk Management

Project Information | Project Details | LD Rates | Schedule Delay | Finance | EHS | Noise | Help

General Information

Does The Selected Project Require A Noise Guarantee From GE Or Its Consortium Partner?

Select One Of The Following To Complete This Noise Risk Module

- ☒ The Customer Has Stated It Will Not Require A Noise Guarantee
- ☐ The Customer Has Issued A Detailed Technical Specification Which Does Not Refer To A Noise Guarantee
- ☐ The Customer Has Not Issued A Technical Specification And Has Not Stated That They Want A Noise Guarantee
- ☐ The Technical Materials Issued By The Customer Do Not Refer To A Noise Guarantee And The Customer Has Not Stated They Want A Noise Guarantee

Select The Type Of Noise Guarantee(s) That Applies

(Please Select Left Hand On The Open Or Closed Consortium Partner As One May Offer A Risk Guarantee)

Select The Location Of The Equipment Being Supplied By GE:

Options For GEEPE Built Units (including 6B, 6FA, 9E)

Does GE's Offer Include A Low Noise Package (80 dBA)?

Does GE's Offer Include A Second Silencer?

Near Field Guarantee

Define The Near Field Guaranteed dBA Level:

Where There Is A Near Field Guarantee With An Indoor Turbine & Generator, Who Is Providing The Building? dBA@3(m) / 1(m) GE/Sub Others N/A

Continue >>

Fig 3

Noise 2

400

Far Field Guarantee

Select The Sound Pressure Level Requested By The Customer

Select The Customer Required Far Field Distance

Does GE's Or Its Sub-Contractors Scope Of Supply Include An Exhaust Stack, Evaporative Cooling Tower, Air Cooled Condenser, Or HRSG?

Do The Proposal / Contract Guarantees References A Plot Plan Dwg Number, Date & Revision?

Does This Proposal / Contract Include More Than Turbine Generators, MSD, And TA's?

Partner Status

Who Is Responsible For The Far Field Noise Guarantee?

Has The Partner's Noise Control Capability Been Evaluated?

Does The Consortium Partner's Noise Control Capability Meet GE Standards?

Select Any Of The Following Types Of Guarantees Requested By The Customer:

☐ Guarantees Based On Start-Up And/OR Transient Noise And NOT On Base/Peak Load Operation

☐ Guarantees Based On Maximum Sound Pressure Levels And NOT Average Sound Pressure Levels

☐ Guarantees Based On Octave Band Sound Pressure Levels OR ISO/NR Noise Curves And NOT Single dBA Value

☐ Guarantees Based On Individual Equipment Or Components (eg Inlet, Exhaust)

Special Customer Requirements

<< Previous

Run Noise Inputs

Continue >>

Project:

Unknown dBA

☐ Unknown ☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ GE ☐ Partner

☐ Yes ☐ No

☐ Yes ☐ No

1.84

Noise 3

500



Noise Risk Assessment

GE's Partner Is Responsible For The Far Field Guarantee

GE Is Responsible For The Near Field Noise Contribution Of Its Scope To The Far Field Guarantee

HIGH Risk Drivers:

Guarantee Is Based On Maximum Sound Pressure Levels And NOT On Average Sound Pressure Levels (NR#1)

Guarantee Is Based On Octave Band Sound Pressure Levels Or Noise Curves And NOT On A Single dBA Value (NR#2)

Guarantee Is Based On Start-Up And/Or Transient Noise And NOT On Base/Peak Load Operation (NR#3)

Guarantees Are Based On Individual Equipment Or Components (e.g. Inlet, Exhaust) (NR#4)

Near Field Noise Guarantee Is Less Than 85 dBA At 3 Feet Or 1 Meter (NR#5)

Near Field Noise Guarantee Is For Indoor Units Where The Building Is Not In GE's Scope (NR#6)

The Far Field Guarantees Do Not Reference A Plot Plan Dwg Number, Date and Revision (NR#10)

Exhaust Stack, Cooling Tower, Air Cooled Condenser Or HSRG Is In GE Or Its Sub-Contractors Scope (NR#11)

Far Field Guarantee Is Required For An Equipment Only Proposal (NR#12)

Partner's Acoustic Design Capability Does Not Meet GE's Standards (NR#14)

Guarantee Conditions Which Are Within GEPS Quoting Limits:

Far Field Noise Guarantee Is Required At An Equivalent Of -3 dBA Or Greater At 400 Feet Or 122 Meters For An Indoor Facility.

Noise Inputs

View Mitigations

Fig 5

Noise 4

600

Project:

~~No Mitigations Are Necessary. Generate Your Report From The Report Wizard~~

☒ I immediately consult a noise control engineer for assistance

☒ Add additional noise attenuation in the Inlet or Exhaust Systems or other equipment as required

☒ Have Pegasus Scope And ECIT Comments Been Updated To Reflect The Guarantee Levels And These Mitigation Strategies?

☒ Does The Output And Heat Rate Performance Guarantee Reflect The Actual Inlet & Exhaust Noise Attenuation Pressure Drops?

☒ Are The Mitigation Costs Included In The Profitability Summary?

☒ With Mitigations In Place, Is It Expected That The Noise Guarantee Will Be Achieved?

☒ Will GEPS Have An Availability Guarantee On This Project?

☒ Yes ☒ No

☒ Yes ☒ No

☒ Yes ☒ No

Noise Response

Noise Engineering Agrees With The Mitigation Strategies Used On This Project ☒ Yes ☒ No

Submit

Fig 4

Draft Noise Risk Report

ID:

91660

Project Name:

MW Country:

MW State:

GE Is Not Bidding With A Partner On This Project

This Project Has A HIGH Risk Level Based On The Drivers Listed Below:

High Risk Drivers

- Exhaust Stack, Cooling Tower, Air Cooled Condenser Or HRSG Is In GE Or Its Sub-Contractors Scope. (NR# 11)
- Guarantee Conditions Which Are Within GEPS Quoting Limits
- Near Field Noise Guarantee On GE Equipment Is At Least 85 dBA At 3 Feet Or 1 Meter Or Greater
- Far Field Noise Guarantee Is Required At An Equivalent Of 58 dBA Or Greater At 400 Feet Or 122 Meters For An Outdoor Facility

Mitigation Strategies Upon Which The Proposal Is Based:

- * Conditioned Guarantee Upon Standard Background Noise Conditions. (NR# 1 - 14)

~~From Noise Control Has Been Consulted And Agrees With The Mitigation Strategies Taken.~~

John Doe

With Mitigations In Place, It Is Expected That The Noise Guarantee Will Be Achieved.

Pegasus Scope And ECIT Comments Have Been Updated To Reflect The Implementation Of The Foregoing Risk Mitigation Strategies

The Output And Heat Rate Performance Guarantee Reflects The Actual Inlet & Exhaust Noise Attenuation Pressure Drops

The Mitigation Costs Are Included In The Profitability Summary

Warning: Far Field Noise Guarantee May Change If Plot Plan Drawing Is Revised.

Risk Assessment System

800

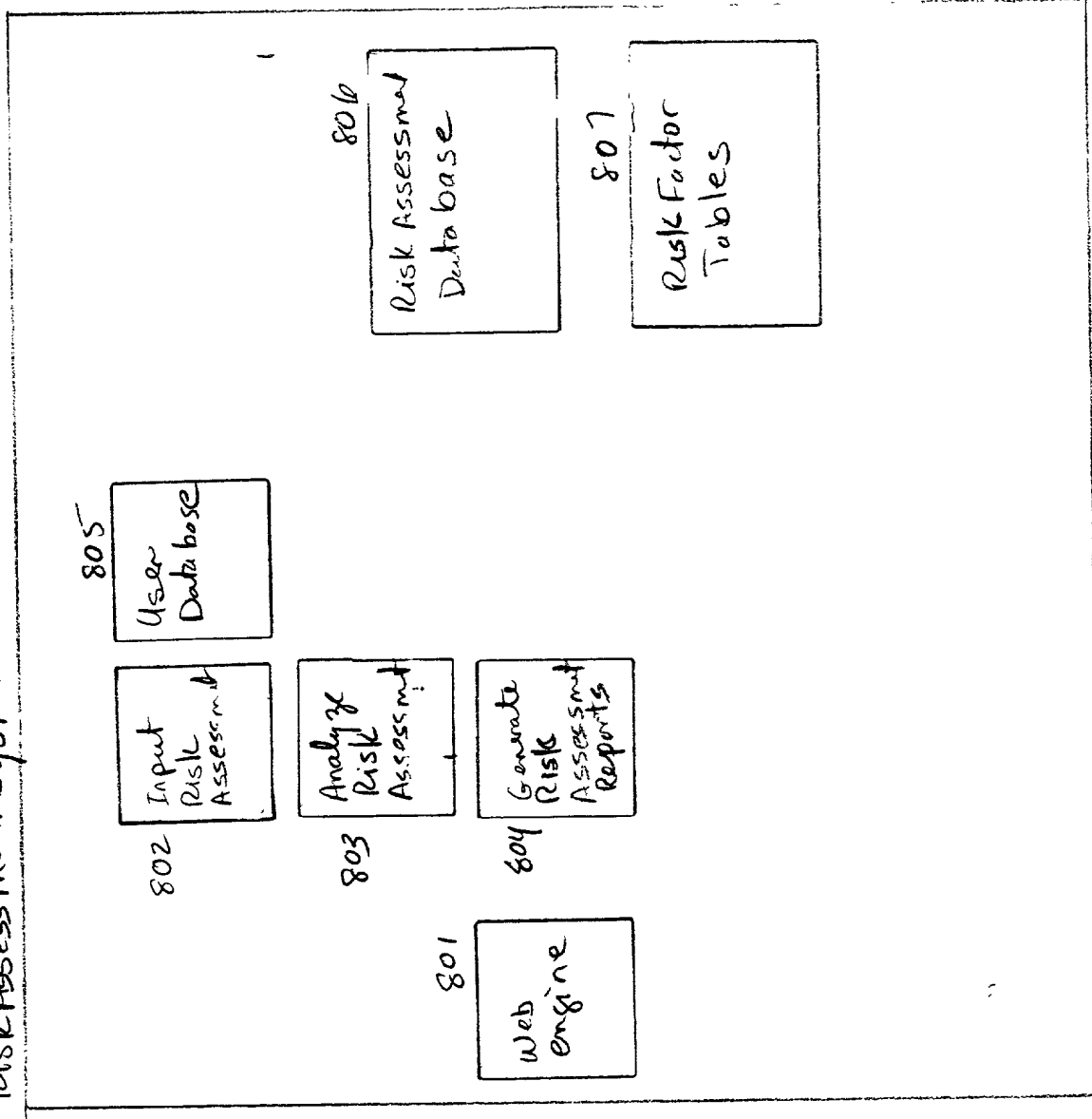
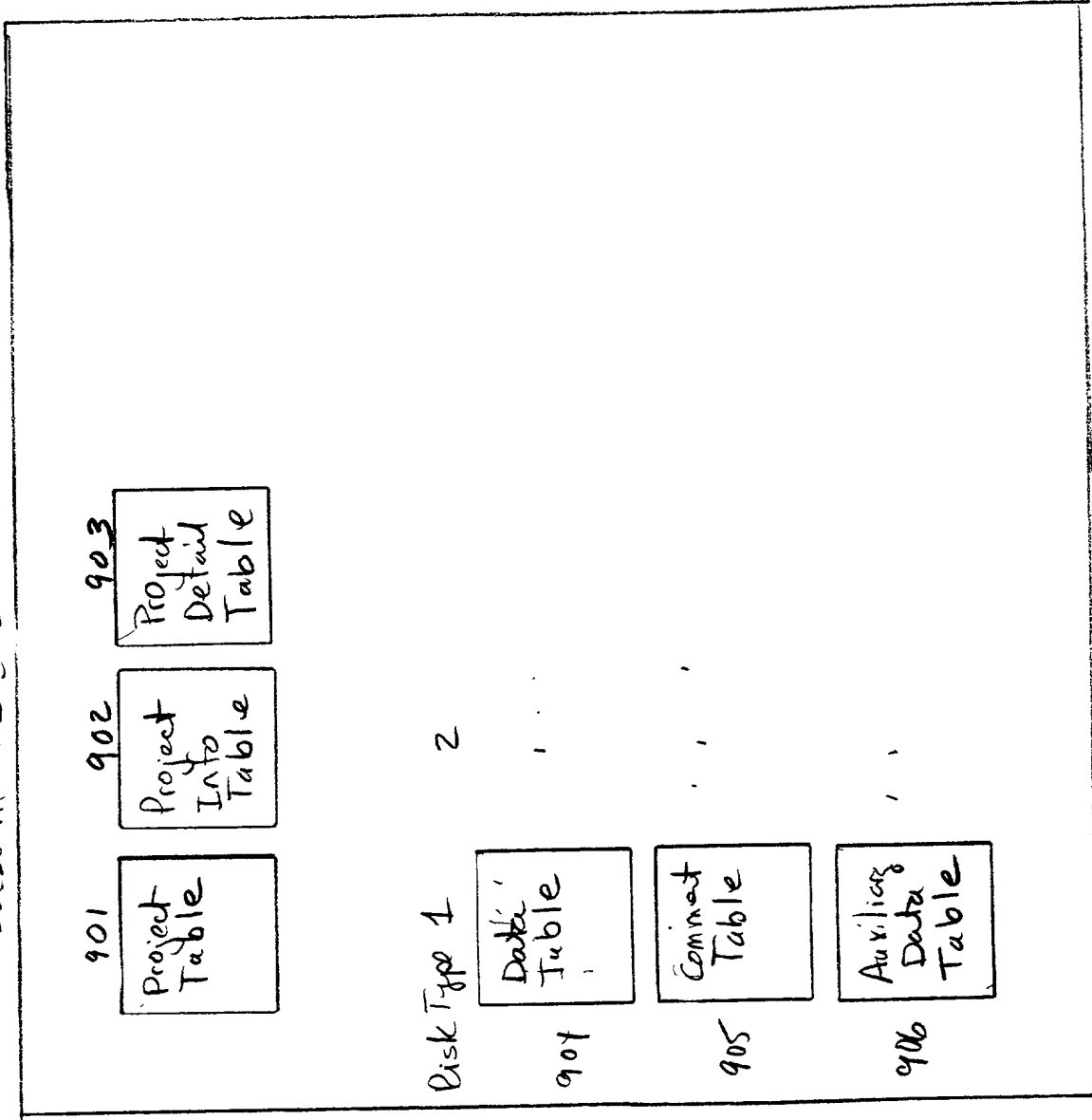


Fig 8

Risk Assessment Database 900



Also may have
Risk
Results
Table

Fig 9

Risk Factor Tables

1000

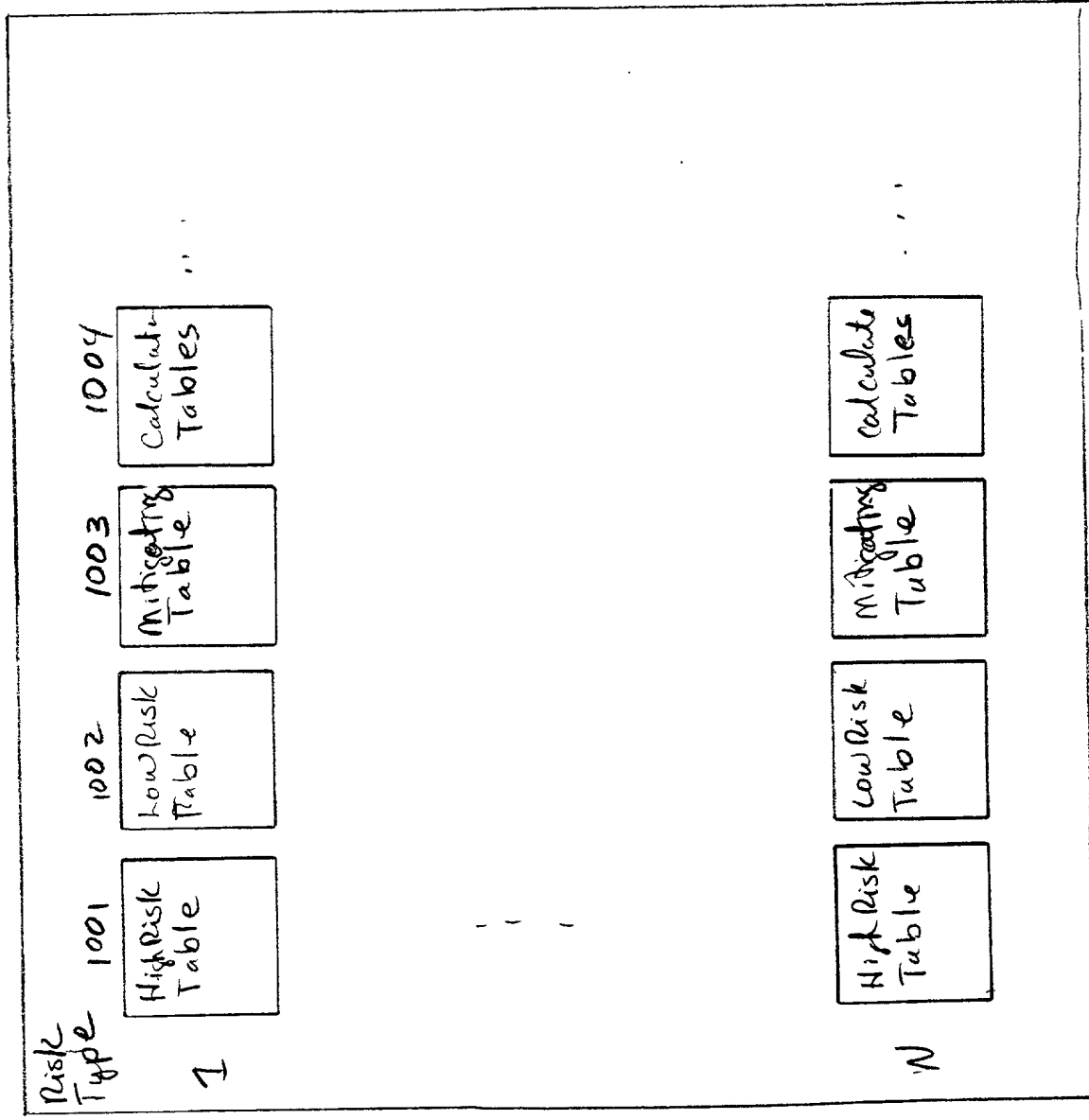


Fig 10

Input Risk Assessment

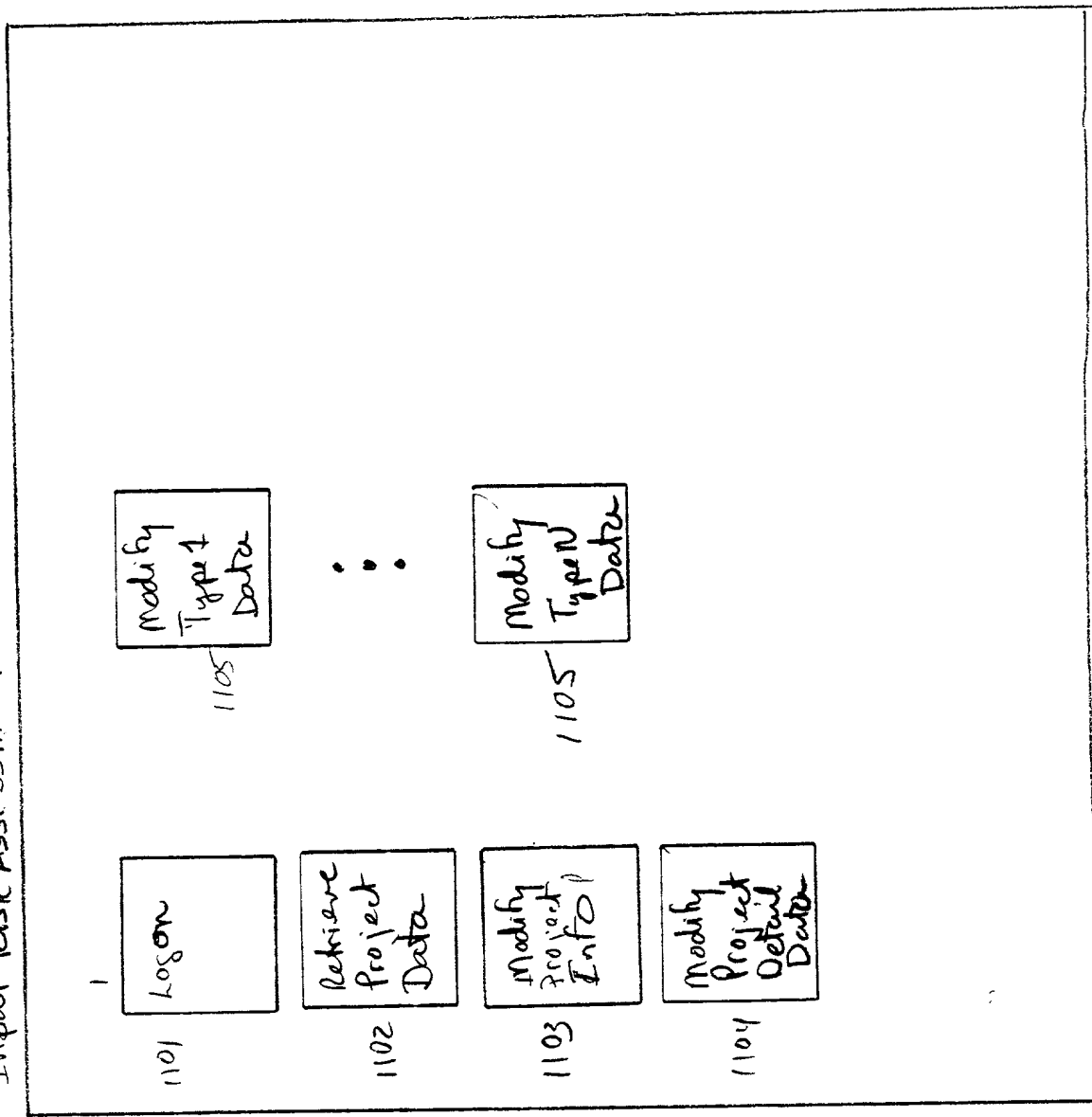


Fig 11

TOP SECRET 63400660

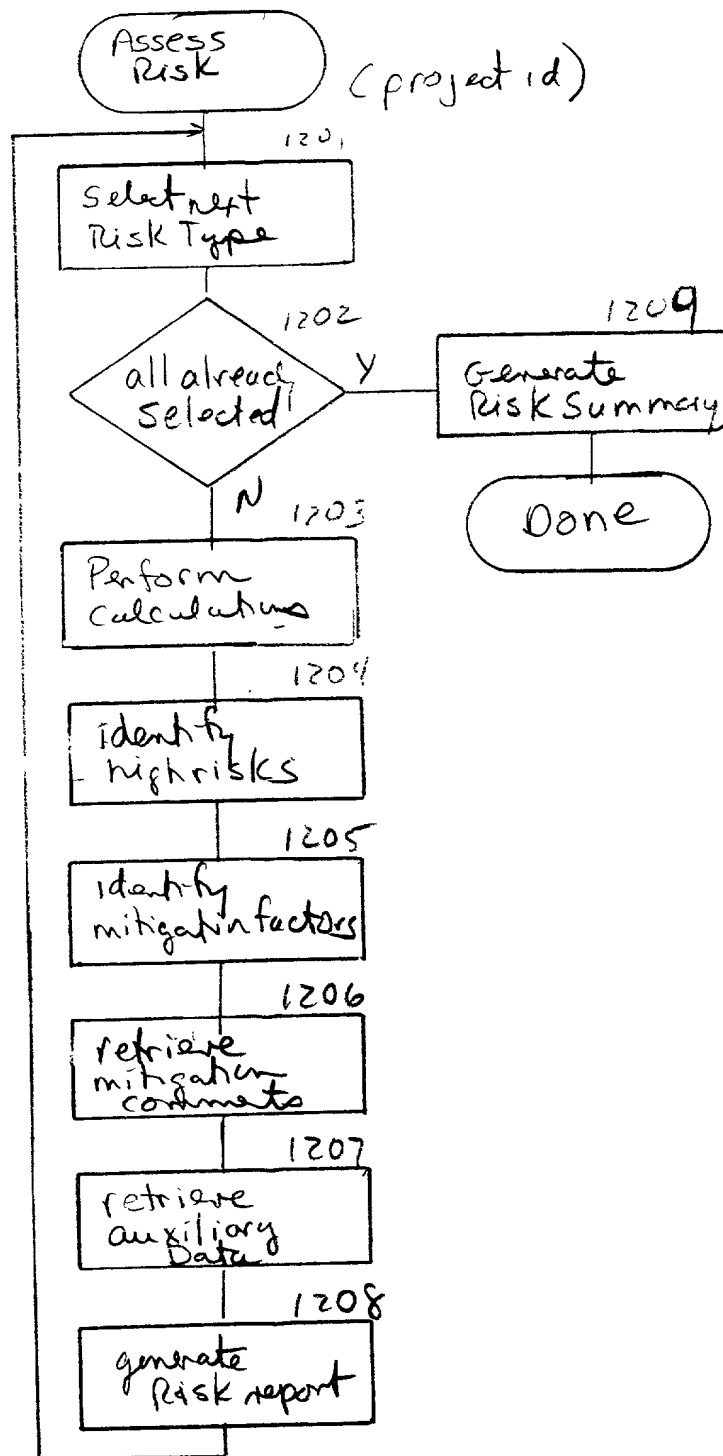


Fig 12

105020 6240660

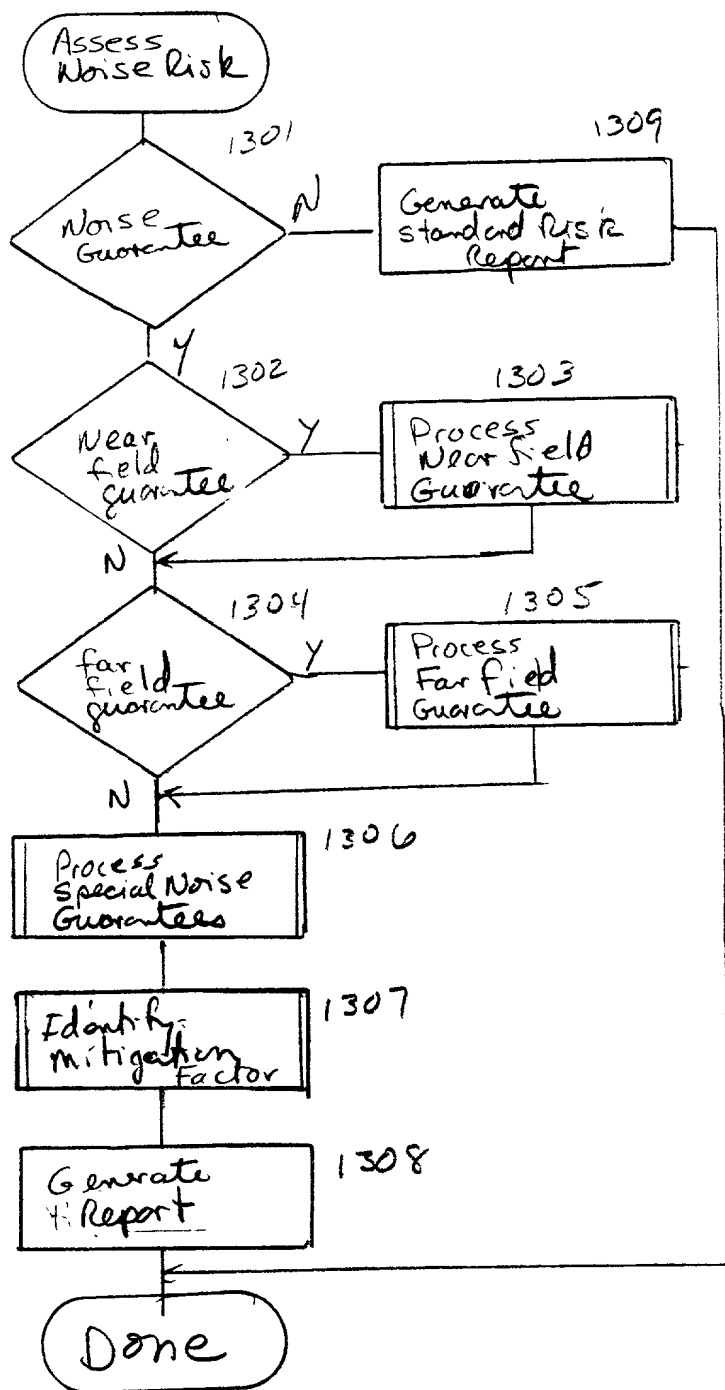
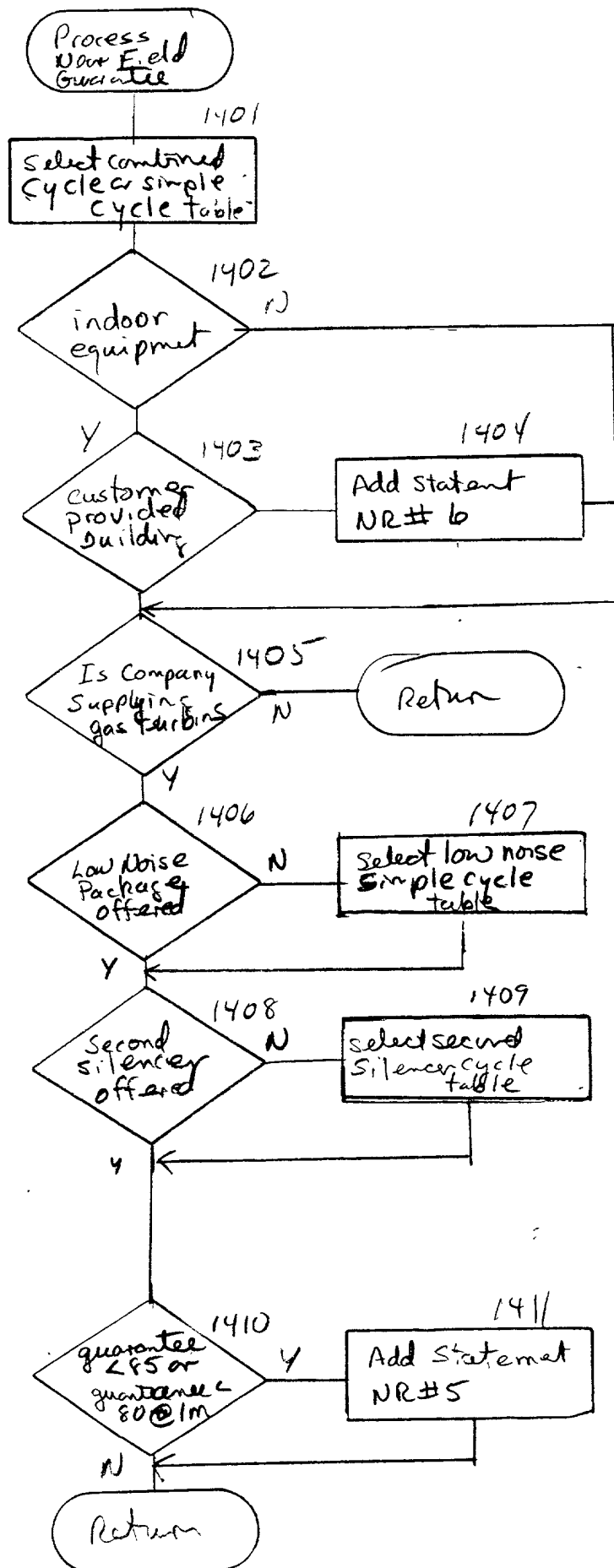


Fig 13

0900499.070501
T0507068400660

Fig 14



00000489.070501
T0507068400660

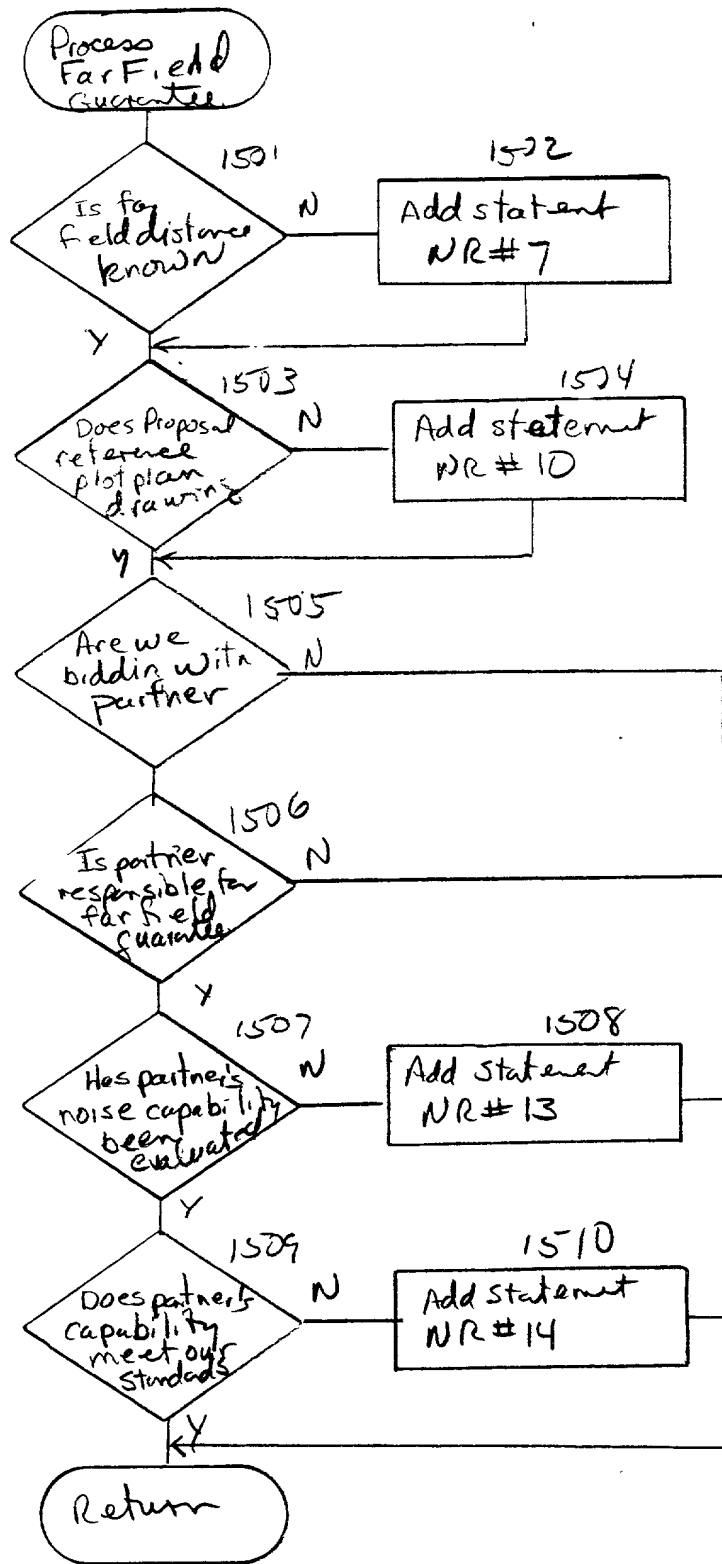
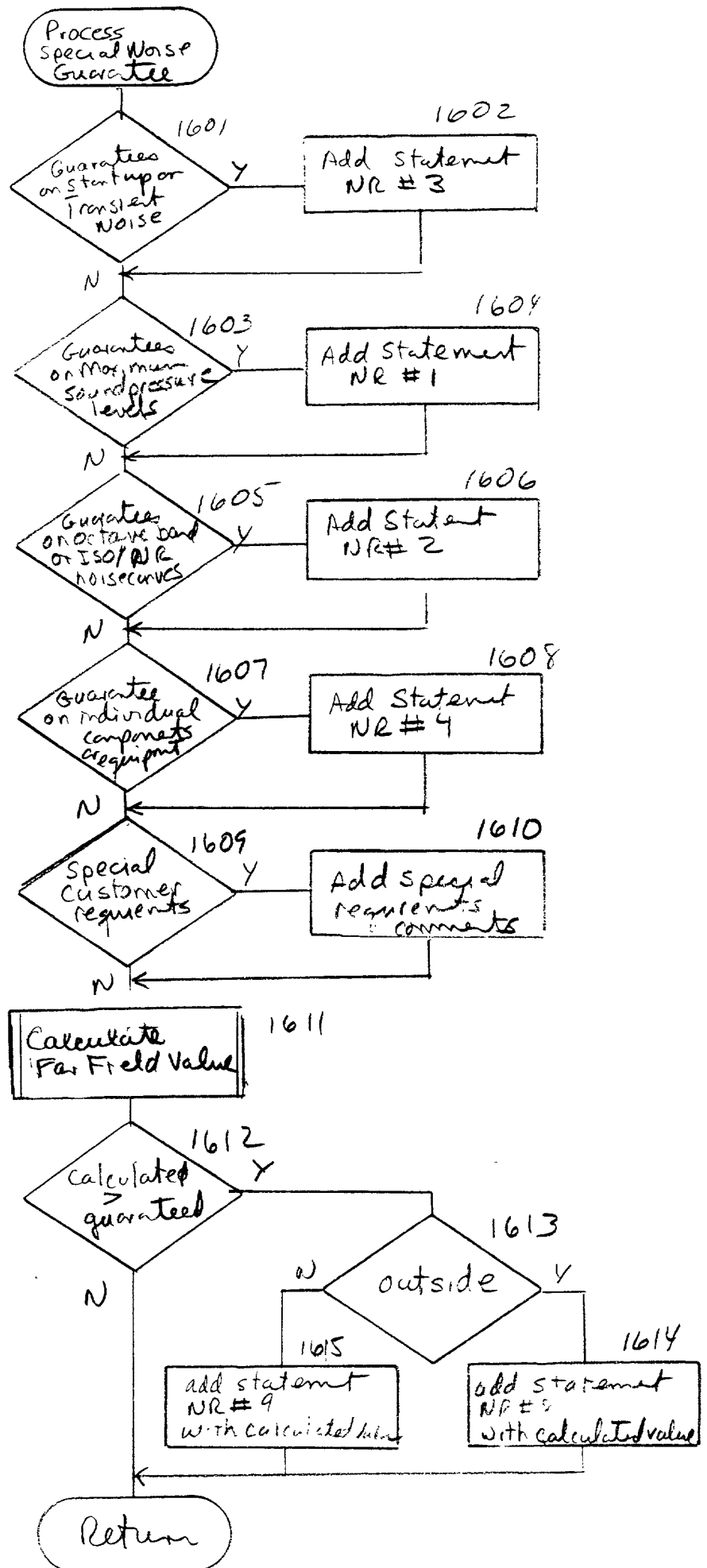


Fig 15

Fig 16



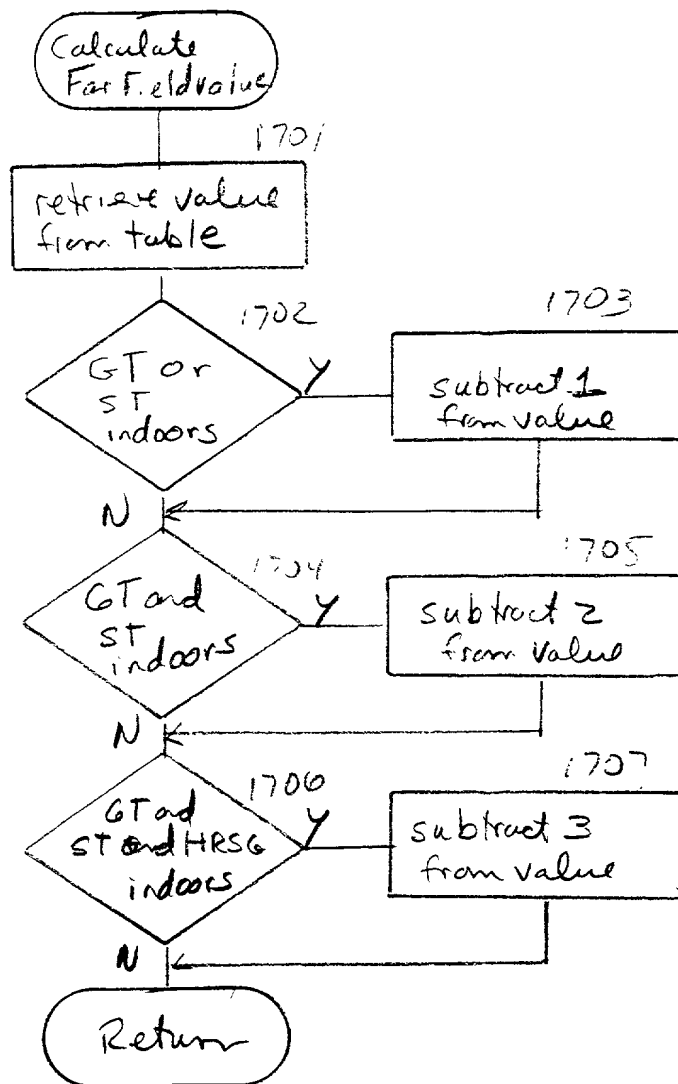


Fig 17

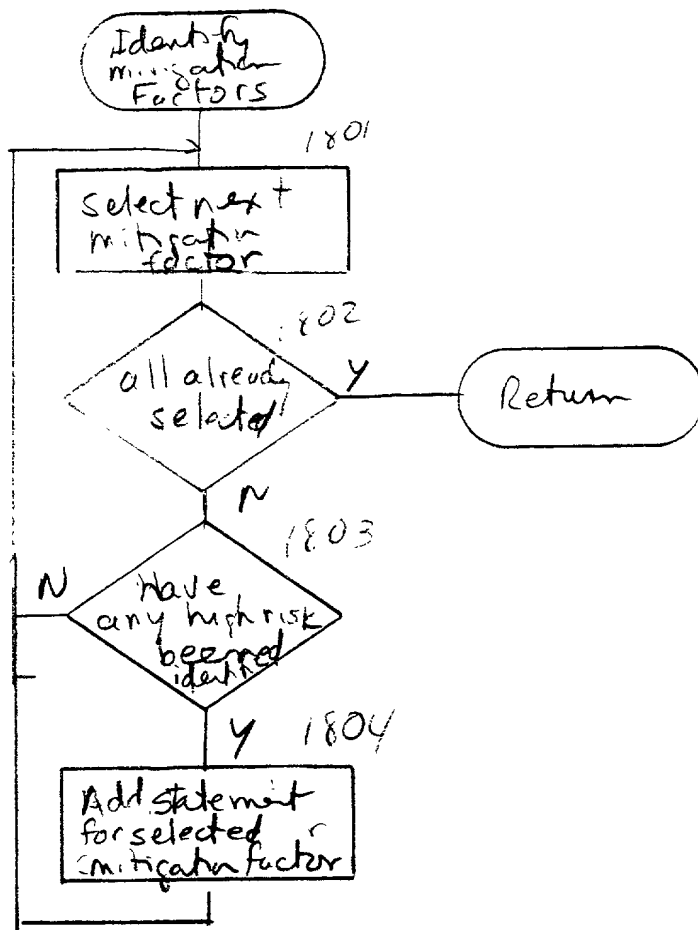


Fig 18